

# SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- 5 (i) APPLICANT: Ashkenazi et al.
- (ii) TITLE OF INVENTION: RTD Receptor
- 10 (iii) NUMBER OF SEQUENCES: 5
- (iv) CORRESPONDENCE ADDRESS:
- (A) ADDRESSEE: Genentech, Inc.
- (B) STREET: 1 DNA Way
- 15 (C) CITY: South San Francisco
- (D) STATE: California
- (E) COUNTRY: USA
- (F) ZIP: 94080
- 20 (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: WinPatin (Genentech)
- 25 (vi) CURRENT APPLICATION DATA:
- (A) APPLICATION NUMBER:
- (B) FILING DATE:
- (C) CLASSIFICATION:
- 30 (viii) ATTORNEY/AGENT INFORMATION:
- (A) NAME: Marschang, Diane L.
- (B) REGISTRATION NUMBER: 35,600
- (C) REFERENCE/DOCKET NUMBER: P1129
- 35 (ix) TELECOMMUNICATION INFORMATION:
- (A) TELEPHONE: 650/225-5416
- (B) TELEFAX: 650/952-9881
- (2) INFORMATION FOR SEQ ID NO:1:

- 40 (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 386 amino acids
- (B) TYPE: Amino Acid
- (D) TOPOLOGY: Linear
- 45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Leu | Trp | Gly | Gln | Ser | Val | Pro | Thr | Ala | Ser | Ser | Ala | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ala | Gly | Arg | Tyr | Pro | Gly | Ala | Arg | Thr | Ala | Ser | Gly | Thr | Arg | Pro |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |

Trp	Leu	Leu	Asp	Pro 35	Lys	Ile	Leu	Lys	Phe 40	Val	Val	Phe	Ile	Val 45
Ala	Val	Leu	Leu	Pro 50	Val	Arg	Val	Asp	Ser 55	Ala	Thr	Ile	Pro	Arg 60
Gln	Asp	Glu	Val	Pro 65	Gln	Gln	Thr	Val	Ala 70	Pro	Gln	Gln	Gln	Arg 75
Arg	Ser	Leu	Lys	Glu 80	Glu	Glu	Cys	Pro	Ala 85	Gly	Ser	His	Arg	Ser 90
Glu	Tyr	Thr	Gly	Ala 95	Cys	Asn	Pro	Cys	Thr 100	Glu	Gly	Val	Asp	Tyr 105
Thr	Ile	Ala	Ser	Asn 110	Asn	Leu	Pro	Ser	Cys 115	Leu	Leu	Cys	Thr	Val 120
Cys	Lys	Ser	Gly	Gln 125	Thr	Asn	Lys	Ser	Ser 130	Cys	Thr	Thr	Thr	Arg 135
Asp	Thr	Val	Cys	Gln 140	Cys	Glu	Lys	Gly	Ser 145	Phe	Gln	Asp	Lys	Asn 150
Ser	Pro	Glu	Met	Cys 155	Arg	Thr	Cys	Arg	Thr 160	Gly	Cys	Pro	Arg	Gly 165
Met	Val	Lys	Val	Ser 170	Asn	Cys	Thr	Pro	Arg 175	Ser	Asp	Ile	Lys	Cys 180
Lys	Asn	Glu	Ser	Ala 185	Ala	Ser	Ser	Thr	Gly 190	Lys	Thr	Pro	Ala	Ala 195
Glu	Glu	Thr	Val	Thr 200	Thr	Ile	Leu	Gly	Met 205	Leu	Ala	Ser	Pro	Tyr 210
His	Tyr	Leu	Ile	Ile 215	Ile	Val	Val	Leu	Val 220	Ile	Ile	Leu	Ala	Val 225
Val	Val	Val	Gly	Phe 230	Ser	Cys	Arg	Lys	Lys 235	Phe	Ile	Ser	Tyr	Leu 240
Lys	Gly	Ile	Cys	Ser 245	Gly	Gly	Gly	Gly	Gly 250	Pro	Glu	Arg	Val	His 255
Arg	Val	Leu	Phe	Arg 260	Arg	Arg	Ser	Cys	Pro 265	Ser	Arg	Val	Pro	Gly 270
Ala	Glu	Asp	Asn	Ala 275	Arg	Asn	Glu	Thr	Leu 280	Ser	Asn	Arg	Tyr	Leu 285
Gln	Pro	Thr	Gln	Val	Ser	Glu	Gln	Glu	Ile	Gln	Gly	Gln	Glu	Leu

					290					295					300
					Gly	Val	Thr	Val	Glu	Xaa	Pro	Glu	Glu	Pro	Gln
					305					310					315
5					Arg	Leu	Leu	Glu	Gln	Ala	Glu	Ala	Glu	Gly	Cys
					320					325					330
					Leu	Leu	Val	Pro	Val	Asn	Asp	Ala	Asp	Ser	Ala
10					335					340					345
					Leu	Leu	Asp	Ala	Ser	Ala	Thr	Leu	Glu	Glu	Gly
					350					355					360
					Thr	Ile	Gln	Asp	Gln	Leu	Val	Gly	Ser	Glu	Lys
15					365					370					375
					Glu	Asp	Glu	Ala	Gly	Ser	Ala	Thr	Ser	Cys	Leu
					380					385	386				

(2) INFORMATION FOR SEQ ID NO:2:

- (A) LENGTH: 2082 base pairs  
(B) TYPE: Nucleic Acid  
(C) STRANDEDNESS: Single  
(D) TOPOLOGY: Linear

CCAACTGCAC	CTCGGTTCTA	TCGATTGAAT	TCCCCGGGGA	TCCTCTAGAG	50								
ATCCCTCGAC	CTCGACCCAC	GCGTCCGGAA	CCTTTGCACG	CGCACAAACT	100								
ACGGGGACGA	TTTCTGATTG	ATTTTTGGCG	CTTTCGATCC	ACCCTCCTCC	150								
CTTCTC	ATG	GGA	CTT	TGG	GGA	CAA	AGC	GTC	CCG	ACC	GCC	189	
	Met	Gly	Leu	Trp	Gly	Gln	Ser	Val	Pro	Thr	Ala		
	1				5						10		
TCG	AGC	GCT	CGA	GCA	GGG	CGC	TAT	CCA	GGA	GCC	AGG	ACA	228
Ser	Ser	Ala	Arg	Ala	Gly	Arg	Tyr	Pro	Gly	Ala	Arg	Thr	
			15					20					
GCG	TCG	GGA	ACC	AGA	CCA	TGG	CTC	CTG	GAC	CCC	AAG	ATC	267
Ala	Ser	Gly	Thr	Arg	Pro	Trp	Leu	Leu	Asp	Pro	Lys	Ile	
25					30					35			
CTT	AAG	TTC	GTC	GTC	TTC	ATC	GTC	GCG	GTT	CTG	CTG	CCG	306
Leu	Lys	Phe	Val	Val	Phe	Ile	Val	Ala	Val	Leu	Leu	Pro	
		40					45					50	

		GTC Val	CGG Arg	GTT Val	GAC Asp	TCT Ser 55	GCC Ala	ACC Thr	ATC Ile	CCC Pro	CGG Arg 60	CAG Gln	GAC Asp	GAA Glu	345
5		GTT Val	CCC Pro 65	CAG Gln	CAG Gln	ACA Thr	GTG Val	GCC Ala 70	CCA Pro	CAG Gln	CAA Gln	CAG Gln	AGG Arg 75	CGC Arg	384
10		AGC Ser	CTC Leu	AAG Lys	GAG Glu 80	GAG Glu	GAG Glu	TGT Cys	CCA Pro	GCA Ala 85	GGA Gly	TCT Ser	CAT His	AGA Arg	423
15		TCA Ser 90	GAA Glu	TAT Tyr	ACT Thr	GGA Gly	GCC Ala 95	TGT Cys	AAC Asn	CCG Pro	TGC Cys	ACA Thr 100	GAG Glu	GGT Gly	462
20		GTG Val	GAT Asp	TAC Tyr 105	ACC Thr	ATT Ile	GCT Ala	TCC Ser	AAC Asn 110	AAT Asn	TTG Leu	CCT Pro	TCT Ser	TGC Cys 115	501
		CTG Leu	CTA Leu	TGT Cys	ACA Thr	GTT Val 120	TGT Cys	AAA Lys	TCA Ser	GGT Gly	CAA Gln 125	ACA Thr	AAT Asn	AAA Lys	540
25		AGT Ser	TCC Ser 130	TGT Cys	ACC Thr	ACG Thr	ACC Thr	AGA Arg 135	GAC Asp	ACC Thr	GTG Val	TGT Cys	CAG Gln 140	TGT Cys	579
30		GAA Glu	AAA Lys	GGA Gly	AGC Ser 145	TTC Phe	CAG Gln	GAT Asp	AAA Lys	AAC Asn 150	TCC Ser	CCT Pro	GAG Glu	ATG Met	618
35		TGC Cys 155	CGG Arg	ACG Thr	TGT Cys	AGA Arg	ACA Thr 160	GGG Gly	TGT Cys	CCC Pro	AGA Arg	GGG Gly 165	ATG Met	GTC Val	657
		AAG Lys	GTC Val	AGT Ser 170	AAT Asn	TGT Cys	ACG Thr	CCC Pro	CGG Arg 175	AGT Ser	GAC Asp	ATC Ile	AAG Lys	TGC Cys 180	696
40		AAA Lys	AAT Asn	GAA Glu	TCA Ser	GCT Ala 185	GCC Ala	AGT Ser	TCC Ser	ACT Thr	GGG Gly 190	AAA Lys	ACC Thr	CCA Pro	735
45		GCA Ala 195	GCG Ala	GAG Glu	GAG Glu	ACA Thr	GTG Val	ACC Thr 200	ACC Thr	ATC Ile	CTG Leu	GGG Gly	ATG Met 205	CTT Leu	774
50		GCC Ala	TCT Ser	CCC Pro	TAT Tyr 210	CAC His	TAC Tyr	CTT Leu	ATC Ile	ATC Ile 215	ATA Ile	GTG Val	GTT Val	TTA Leu	813

	GTC	ATC	ATT	TTA	GCT	GTG	GTT	GTG	GTT	GGC	TTT	TCA	TGT	852
	Val	Ile	Ile	Leu	Ala	Val	Val	Val	Val	Gly	Phe	Ser	Cys	
	220					225					230			
5	CGG	AAG	AAA	TTC	ATT	TCT	TAC	CTC	AAA	GGC	ATC	TGC	TCA	891
	Arg	Lys	Lys	Phe	Ile	Ser	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	
			235					240					245	
10	GGT	GGT	GGA	GGA	GGT	CCC	GAA	CGT	GTG	CAC	AGA	GTC	CTT	930
	Gly	Gly	Gly	Gly	Gly	Pro	Glu	Arg	Val	His	Arg	Val	Leu	
					250					255				
15	TTC	CGG	CGG	CGT	TCA	TGT	CCT	TCA	CGA	GTT	CCT	GGG	GCG	969
	Phe	Arg	Arg	Arg	Ser	Cys	Pro	Ser	Arg	Val	Pro	Gly	Ala	
		260					265					270		
20	GAG	GAC	AAT	GCC	CGC	AAC	GAG	ACC	CTG	AGT	AAC	AGA	TAC	1008
	Glu	Asp	Asn	Ala	Arg	Asn	Glu	Thr	Leu	Ser	Asn	Arg	Tyr	
				275					280					
25	TTG	CAG	CCC	ACC	CAG	GTC	TCT	GAG	CAG	GAA	ATC	CAA	GGT	1047
	Leu	Gln	Pro	Thr	Gln	Val	Ser	Glu	Gln	Glu	Ile	Gln	Gly	
	285					290					295			
30	CAG	GAG	CTG	GCA	GAG	CTA	ACA	GGT	GTG	ACT	GTA	GAG	TYG	1086
	Gln	Glu	Leu	Ala	Glu	Leu	Thr	Gly	Val	Thr	Val	Glu	Xaa	
			300					305					310	
35	CCA	GAG	GAG	CCA	CAG	CGT	CTG	CTG	GAA	CAG	GCA	GAA	GCT	1125
	Pro	Glu	Glu	Pro	Gln	Arg	Leu	Leu	Glu	Gln	Ala	Glu	Ala	
					315					320				
40	GAA	GGG	TGT	CAG	AGG	AGG	AGG	CTG	CTG	GTT	CCA	GTG	AAT	1164
	Glu	Gly	Cys	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Val	Asn	
		325				330						335		
45	GAC	GCT	GAC	TCC	GCT	GAC	ATC	AGC	ACC	TTG	CTG	GAT	GCC	1203
	Asp	Ala	Asp	Ser	Ala	Asp	Ile	Ser	Thr	Leu	Leu	Asp	Ala	
				340					345					
50	TCG	GCA	ACA	CTG	GAA	GAA	GGA	CAT	GCA	AAG	GAA	ACA	ATT	1242
	Ser	Ala	Thr	Leu	Glu	Glu	Gly	His	Ala	Lys	Glu	Thr	Ile	
	350					355					360			
55	CAG	GAC	CAA	CTG	GTG	GGC	TCC	GAA	AAG	CTC	TTT	TAT	GAA	1281
	Gln	Asp	Gln	Leu	Val	Gly	Ser	Glu	Lys	Leu	Phe	Tyr	Glu	
			365					370					375	
60	GAA	GAT	GAG	GCA	GGC	TCT	GCT	ACG	TCC	TGC	CTG	TGAAAG	1320	
	Glu	Asp	Glu	Ala	Gly	Ser	Ala	Thr	Ser	Cys	Leu			
					380					385	386			

AATCTCTTCA GGAAACCAGA GCTTCCCTCA TTTACCTTTT CTCCTACAAA 1370  
 GGGAAGCAGC CTGGAAGAAA CAGTCCAGTA CTTGACCCAT GCCCCAACAA 1420  
 5 ACTCTACTAT CCAATATGGG GCAGCTTACC AATGGTCCTA GAACTTTGTT 1470  
 AACGCACTTG GAGTAATTTT TATGAAATAC TGC GTGTGAT AAGCAAACGG 1520  
 GAGAAATTTA TATCAGATTC TTGGCTGCAT AGTTATACGA TTGTGTATTA 1570  
 10 AGGGTCGTTT TAGGCCACAT GCGGTGGCTC ATGCCTGTAA TCCCAGCACT 1620  
 TTGATAGGCT GAGGCAGGTG GATTGCTTGA GCTCGGGAGT TTGAGACCAG 1670  
 15 CCTCATCAAC ACAGTGAAAC TCCATCTCAA TTTAAAAAGA AAAAAAGTGG 1720  
 TTTTAGGATG TCATTCTTTG CAGTTCTTCA TCATGAGACA AGTCTTTTTT 1770  
 TCTGCTTCTT ATATTGCAAG CTCCATCTCT ACTGGTGTGT GCATTTAATG 1820  
 20 ACATCTAACT ACAGATGCCG CACAGCCACA ATGCTTTGCC TTATAGTTTT 1870  
 TTAAC TTTAG AACGGGATTA TCTTGTTATT ACCTGTATTT TCAGTTTCGG 1920  
 25 ATATTTTTGA CTTAATGATG AGATTATCAA GACGTACCCC TATGCTAAGT 1970  
 CATGAGCATA TGGACTTACG AGGGTTCGAC TTAGAGTTTT GAGCTTTAAG 2020  
 30 ATAGGATTAT TGGGGGCTTA CCCCACCTT AATTAGAAGA AACATTTTAT 2070  
 ATTGCTTTAC TA 2082

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 50 base pairs
  - (B) TYPE: Nucleic Acid
  - (C) STRANDEDNESS: Single
  - (D) TOPOLOGY: Linear

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CATAAAAGTT CCTGCACCAT GACCAGAGAC ACAGTGTGTC AGTGTAAGA 50

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 24 base pairs
  - (B) TYPE: Nucleic Acid
  - (C) STRANDEDNESS: Single
  - (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CTTCAGGAAA CCAGAGCTTC CCTC 24

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24 base pairs

(B) TYPE: Nucleic Acid

(C) STRANDEDNESS: Single

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

TTCTCCCGTT TGCTTATCAC ACGC 24

0091874 0891680